

FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFFFFFFFFFFFFFFF	111	111	AAAAAAAAA	
FFF	111111	111111	AAA	AAA
FFF	111111	111111	AAA	AAA
FFF	111111	111111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFFFFFFFFFFFFF	111	111	AAA	AAA
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAAAAAAAAAAAAAAA	
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111	111	AAA	AAA
FFF	111111111	111111111	AAA	AAA
FFF	111111111	111111111	AAA	AAA
FFF	111111111	111111111	AAA	AAA





```
0001 0 MODULE CREFCB (  
0002 0     LANGUAGE (BLISS32),  
0003 0     IDENT = 'V04-000'  
0004 0 ) =  
0005 1 BEGIN  
0006 1  
0007 1 |  
0008 1 |*****  
0009 1 |*  
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0027 1 |*  
0028 1 |*  
0029 1 |*****  
0030 1 |  
0031 1 |++  
0032 1 |  
0033 1 |FACILITY: F11ACP Structure Level 1  
0034 1 |  
0035 1 |ABSTRACT:  
0036 1 |  
0037 1 |    These routines create and initialize a file control block  
0038 1 |    from the given file header.  
0039 1 |  
0040 1 |ENVIRONMENT:  
0041 1 |  
0042 1 |    STARLET operating system, including privileged system services  
0043 1 |    and internal exec routines. These routines must be called in  
0044 1 |    kernel mode.  
0045 1 |  
0046 1 |  
0047 1 |--  
0048 1 |  
0049 1 |  
0050 1 |AUTHOR: Andrew C. Goldstein, CREATION DATE: 14-Dec-1976 16:48  
0051 1 |  
0052 1 |MODIFIED BY:  
0053 1 |  
0054 1 |    A0100   ACG0001   Andrew C. Goldstein, 10-Oct-1978 20:01  
0055 1 |    Previous revision history moved to F11A.REV  
0056 1 |  
0057 1 |**
```



CREFCB  
V04-000

C 14  
16-Sep-1984 00:54:07  
14-Sep-1984 12:29:25

VAX-11 Bliss-32 V4.0-742  
DISK\$VMMASTER:[F11A.SRC]CREFCB.B32;1 Page 2 (1)

```
: 58      0058 1
: 59      0059 1
: 60      0060 1 LIBRARY 'SYSS$LIBRARY:LIB.L32';
: 61      0061 1 REQUIRE 'SRC$:FCPDEF.B32';
: 62      0376 1
: 63      0377 1
: 64      0378 1 FORWARD ROUTINE
: 65      0379 1 CREATE_FCB,
: 66      0380 1 UPDATE_FCB      : NOVALUE;
```



```

68 0381 1 GLOBAL ROUTINE CREATE_FCB (HEADER) =
69 0382 1
70 0383 1 !++
71 0384 1
72 0385 1 FUNCTIONAL DESCRIPTION:
73 0386 1
74 0387 1 This routine creates an FCB and initializes it according to
75 0388 1 the given file header.
76 0389 1
77 0390 1 CALLING SEQUENCE:
78 0391 1 CREATE_FCB (ARG1)
79 0392 1
80 0393 1 INPUT PARAMETERS:
81 0394 1 ARG1: address of file header
82 0395 1
83 0396 1 IMPLICIT INPUTS:
84 0397 1 NONE
85 0398 1
86 0399 1 OUTPUT PARAMETERS:
87 0400 1 NONE
88 0401 1
89 0402 1 IMPLICIT OUTPUTS:
90 0403 1 NONE
91 0404 1
92 0405 1 ROUTINE VALUE:
93 0406 1 ADDRESS OF FCB
94 0407 1
95 0408 1 SIDE EFFECTS:
96 0409 1 FCB created and initialized
97 0410 1
98 0411 1 !--
99 0412 1
100 0413 2 BEGIN
101 0414 2
102 0415 2 MAP
103 0416 2 HEADER : REF BBLOCK; ! file header argument
104 0417 2
105 0418 2 LOCAL
106 0419 2 FCB : REF BBLOCK; ! address of FCB created
107 0420 2
108 0421 2 EXTERNAL ROUTINE
109 0422 2 ALLOCATE, ! allocate dynamic memory
110 0423 2 INIT_FCB; ! initialize contents of FCB
111 0424 2
112 0425 2 ! Allocate an FCB sized and typed block. Then use the common routine
113 0426 2 ! to init it.
114 0427 2
115 0428 2
116 0429 2 FCB = ALLOCATE (FCB$C_LENGTH, FCB_TYPE);
117 0430 2 FCB[FCB$L_WLFL] = FCB[FCB$L_WLFL]; ! init null window list
118 0431 2 FCB[FCB$L_WLBL] = FCB[FCB$L_WLFL];
119 0432 2 FCB[FCB$L_STVBN] = 1; ! init start VBN to 1
120 0433 2 INIT_FCB (.FCB, .HEADER);
121 0434 2 RETURN .FCB;
122 0435 2
123 0436 1 END; ! end of routine CREATE_FCB
```

CREFCB  
V04-000

E 14  
16-Sep-1984 00:54:07  
14-Sep-1984 12:29:25

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[F11A.SRC]CREFCB.B32;1  
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(2)

				0004 00000
	7E	B4	7E	D4 00002
0000G	CF		8F	9A 00004
	52		02	FB 00008
10	A2	10	50	D0 0000D
14	A2	10	A2	9E 00010
2C	A2		A2	9E 00015
		04	01	D0 0001A
			AC	DD 0001E
0000G	CF		52	DD 00021
	50		02	FB 00023
			52	D0 00028
			04	0002B

```
.TITLE CREFCB
.IDENT \V04-000\
.EXTRN ALLOCATE, INIT_FCB
.PSECT $CODE$,NOWRT,2
.ENTRY CREATE_FCB, Save R2
CLRL -(SP)
MOVZBL #180, -(SP)
CALLS #2, ALLOCATE
MOVL R0, FCB
MOVAB 16(FCB), 16(FCB)
MOVAB 16(FCB), 20(FCB)
MOVL #1, 44(FCB)
PUSHL HEADER
PUSHL FCB
CALLS #2, INIT_FCB
MOVL FCB, R0
RET
```

```
: 0381
: 0429
:
:
: 0430
: 0431
: 0432
: 0433
:
: 0434
: 0436
```

; Routine Size: 44 bytes, Routine Base: \$CODE\$ + 0000



```
125 0437 1 GLOBAL ROUTINE UPDATE_FCB (HEADER) : NOVALUE =
126 0438 1
127 0439 1 ++
128 0440 1
129 0441 1 FUNCTIONAL DESCRIPTION:
130 0442 1
131 0443 1 This routine updates the file attributes of the file's primary FCB,
132 0444 1 if any, with the file attributes of the given header. The file size
133 0445 1 is preserved.
134 0446 1
135 0447 1
136 0448 1 CALLING SEQUENCE:
137 0449 1 UPDATE_FCB (ARG1)
138 0450 1
139 0451 1 INPUT PARAMETERS:
140 0452 1 ARG1: address of file header
141 0453 1
142 0454 1 IMPLICIT INPUTS:
143 0455 1 NONE
144 0456 1
145 0457 1 OUTPUT PARAMETERS:
146 0458 1 NONE
147 0459 1
148 0460 1 IMPLICIT OUTPUTS:
149 0461 1 PRIMARY_FCB: address of file FCB or 0
150 0462 1
151 0463 1 ROUTINE VALUE:
152 0464 1 NONE
153 0465 1
154 0466 1 SIDE EFFECTS:
155 0467 1 FCB is updated if it exists
156 0468 1
157 0469 1 --
158 0470 1
159 0471 2 BEGIN
160 0472 2
161 0473 2 MAP
162 0474 2 HEADER : REF BBLOCK; ! file header arg
163 0475 2
164 0476 2 LOCAL
165 0477 2 FCB : REF BBLOCK, ! local pointer to FCB
166 0478 2 MAP_AREA : REF BBLOCK, ! pointer to header map area
167 0479 2 MAP_POINTER : REF BBLOCK; ! pointer to scan map
168 0480 2
169 0481 2 EXTERNAL
170 0482 2 PRIMARY_FCB : REF BBLOCK, ! FCB of file in process
171 0483 2 HEADER_LBN; ! LBN of file header
172 0484 2
173 0485 2
174 0486 2 FCB = .PRIMARY_FCB;
175 0487 2 IF .FCB EQL 0 THEN RETURN;
176 0488 2
177 0489 2
178 0490 2 ! Get the known constants and the simple stuff from the file header
179 0491 2 ! (i.e., header LBN, file ID, starting VBN, file owner and file protection).
180 0492 2
181 0493 2
```



```

.ENTRY      UPDATE_FCB, Save R2,R3,R4
MOV        PRIMARY_FCB, FCB
BEQ        4$
MOV        HEADER_LBN, 52(FCB)
MOV        HEADER, R3
MOV        2(R3), 36(FCB)
MOVZBW     8(R3), 88(FCB)
MOVZBW     9(R3), 90(FCB)
MOVW       10(R3), 112(FCB)
BBC        #4, 13(R3), 1$
BISB2      #16, 34(FCB)
MOVAB      60(FCB), R4
ROTL       #16, 22(R3), (R4)
BEQ        2$
TSTW       26(R3)
BNEQ       2$
DECL       (R4)
MOVZBL     1(R3), R0
MOVAW      (R3)[R0], MAP_AREA
MOVAB      10(R1), MAP_POINTER

```

0437  
0486  
0487  
0494  
0495  
  
0497  
0498  
0499  
0500  
  
0501  
  
0502  
0503  
  
0504  
0509  
  
0510



CREFCB  
V04-000

H 14  
16-Sep-1984 00:54:07  
14-Sep-1984 12:29:25

VAX-11 Bliss-32 V4.0-742  
DISK\$VMSMASTER:[F11A.SRC]CREFCB.B32;1

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2A	A2		61	9B	0004E	MOVZBW	(MAP AREA), 42(FCB)	: 0511
		30	A2	D4	00052	CLRL	48(FCB)	: 0513
		0C	A3	95	00055	TSTB	12(R3)	: 0514
			09	18	00058	BGEQ	3\$	: 0517
30	A2	02	A0	3C	0005A	MOVZWL	2(MAP POINTER), 48(FCB)	: 0518
32	A2		60	90	0005F	MOVB	(MAP POINTER), 50(FCB)	: 0522
38	A2		64	D1	00063	CMPL	(R4), 56(FCB)	: 0523
			04	15	00067	BLEQ	4\$	: 0525
	64	38	A2	D0	00069	MOVL	56(FCB), (R4)	: 0525
			04	0006D	4\$:	RET		: 0525

; Routine Size: 110 bytes, Routine Base: \$CODE\$ + 002C

; 214 0526 1  
; 215 0527 1 END  
; 216 0528 0 ELUDOM

#### PSECT SUMMARY

Name	Bytes	Attributes
\$CODE\$	154	NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)

#### Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
_\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	31	0	1000	00:01.9

#### COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:CREFCB/OBJ=OBJ\$:CREFCB MSRC\$:CREFCB/UPDATE=(ENH\$:CREFCB)

; Size: 154 code + 0 data bytes  
; Run Time: 00:08.3  
; Elapsed Time: 00:25.9  
; Lines/CPU Min: 3830  
; Lexemes/CPU-Min: 17470  
; Memory Used: 102 pages  
; Compilation Complete



0164 AH-BT13A-SE  
VAX/VMS V4.0

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